RF Exposure Report

Report No.:	SA191209C26
FCC ID:	2AKCZ-0F8
Test Model:	APL62-0F8
Received Date:	Dec. 09, 2019
Test Date:	Dec. 26, 2019 ~ Apr. 20, 2020
Issued Date:	Apr. 22, 2020
Applicant:	SonicWall Inc.
Address:	1033 McCarthy Blvd., Milpitas, CA 95035, USA
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan
FCC Registration / Designation Number:	788550 / TW0003

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Release Control Record

Issue No.	Description	Date Issued
SA191209C26	Original release.	Apr. 22, 2020

1 Certificate of Conformity

Product:	Wireless Network Security Appliance
Brand:	SONICWALL
Test Model:	APL62-0F8
Sample Status:	Engineering sample
Applicant:	SonicWall Inc.
Test Date:	Dec. 26, 2019 ~ Apr. 20, 2020
Standards:	FCC Part 2 (Section 2.1091
References Test Guidance:	KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.3 -2002

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Polly Chien , **Date:** Apr. 22, 2020

Polly Chien / Specialist

Approved by : Bruce Chen , **Date:** Apr. 22, 2020

Bruce Chen / Senior Project Engineer

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	…	…	f/1500	30
1500-100,000	…	…	1.0	30

f = Frequency in MHz; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20m away from the body of the user. So, this device is classified as Mobile Device.

3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Average Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
CDD mode					
WLAN 2412~2462	26.62	6.20	20	0.381	1
WLAN 5180~5240	24.96	8.86	20	0.479	1
WLAN 5745~5825	24.38	8.86	20	0.419	1
Beamforming mode					
WLAN 2412~2462	18.75	6.20	20	0.062	1
WLAN 5180~5240	21.92	8.86	20	0.238	1
WLAN 5745~5825	21.37	8.86	20	0.210	1

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

* WLAN 2.4GHz & WLAN 5GHz technology cannot transmit at same time.

2.4GHz: Directional gain = 3.19dBi +10log(2) = 6.20dBi
5.0GHz: Directional gain = 5.85dBi+10log(2) = 8.86dBi

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